

# TSW-570PR

## 5 in. Wall Mount Touch Screen, Portrait, Crestron Home™ OS Version



- Next generation Crestron® portrait touch screen featuring a native Crestron Home™ OS application
- 5 in. (127 mm) widescreen active-matrix color display and 720 x 1280 HD 720 display resolution
- Capacitive touch screen display
- H.265, H.264, or MJPEG streaming video display
- Native app for Sonos® home sound control
- Single wire Ethernet connection with PoE or PoE+ power
- Dual USB 2.0 ports
- Enterprise grade security and authentication
- Web or device-based configuration
- Wall mounting with provided mounting bracket

The TSW-570PR is compatible with [Wall-Smart® flush wall mounting accessories](#).

The Crestron® TSW-570PR series is a stylish and versatile portrait touch screen that is designed specifically to run the Crestron Home™ OS application. The TSW-570PR features a portrait-oriented 5 in. (127 mm) capacitive touch screen display, PoE connectivity and a comprehensive assortment of mounting accessories simplify new and retrofit installations.

### Advanced Touch Screen Control

The TSW-570PR offers a sleek and powerful user interface for controlling technology in the home via the Crestron Home app. The touch screen provides an intuitive interface that is fully customizable with easy-to-use capacitive controls, true feedback, and real-time status display. A built-in proximity sensor wakes the screen without requiring any user interaction, and automatic brightness controls ensure optimal visibility under varying lighting conditions.

### Streaming Video

Native support for H.265, H.264, and MJPEG formats allows the TSW-570PR to display live streaming video from an IP

camera, a streaming encoder (Crestron [CEN-NVS200-PWE](#), [DM-TXRX-100-STR](#), or similar), or a [DigitalMedia™ switcher](#).<sup>1</sup> Video is delivered to the touch screen over Ethernet, eliminating the need for any extra video wiring.

### Sonos App

[Sonos and Crestron](#) have partnered to provide a powerful whole-house music experience. From any touch screen in the house, browse for tracks, artists, or playlists using all the services available from Sonos and instantly play them in any room using Sonos® wireless speakers or a Crestron [Sonnex® multiroom audio system](#). The Sonos app runs natively on the TSW-570PR, enabling enhanced control of Sonos products as part of a complete Crestron system. The app checks for updates nightly so it's always current, and support for the Sonos S2 App is provided.<sup>1</sup>

### Crestron Home OS Control

The TSW-570PR may be used to control a [Crestron Home™ OS](#) whole home solution. Select the Crestron Home app from the touch screen to control lighting, shades, climate, media, security, and cameras, including the ability to create and recall scenes that create a desired ambiance throughout a home. A TSW-570PR may be installed in each room to provide easy access to various Crestron Home functions for both the room and the home.

### Wired Connectivity

An Ethernet LAN connection is all that is required to wire the TSW-570PR, containing all control, video, intercom, and power signals within a single wire.

### Power over Ethernet

Using PoE technology, the TSW-570PR gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches ([CEN-SW-POE-5](#) or [CEN-SWPOE-16](#)<sup>1</sup>) offer a total networking solution with built-in PoE for multiple touch screens. A PoE Injector ([PWE-4803RU](#)<sup>1</sup>) is also available to support a single touch screen.

**NOTE:** Refer to the "Power" specifications for more details.

### Enterprise-Grade Security

Crestron touch screens employ enterprise-grade networking with robust security features such as 802.1X authentication, TLS encryption, HTTPS connectivity, and Active Directory® service integration.

### Wall Mount Options

The TSW-570PR is easily installed into drywall and other surfaces using the included [TSW-UMB-70](#) universal mounting bracket, which affords the following mounting options:<sup>2</sup>

- Can be used by itself as a postconstruction solution for retrofitting the TSW-570PR into existing drywall.

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- Can be used with the included [TSW-UMB-570P-PMK](#) preconstruction mounting kit for applications that don't require a back box.
- Can be used with the [TSW-UMB-70-BBI](#) back box for masonry and concrete applications.<sup>1</sup>

A security bracket option is also included to deter unauthorized removal of the touch screen.

The TSW-570PR is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. For more information on supported Wall-Smart hardware, click [here](#).

### Specifications

#### Touch Screen Display

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<b>Display Type</b>	TFT active matrix color LCD
<b>Size</b>	5 in. (127 mm) diagonal
<b>Aspect Ratio</b>	16:9 HD 720 (portrait)
<b>Resolution</b>	720 x 1280 pixels
<b>Brightness</b>	400 nits (cd/m <sup>2</sup> )
<b>Contrast</b>	800:1
<b>Color Depth</b>	24 bit, 16.7M colors
<b>Illumination</b>	Edgelit LED with auto brightness control
<b>Viewing Angle</b>	±80° horizontal, ±80° vertical
<b>Touch Screen</b>	Projected capacitive, 5-point multitouch capable

#### Buttons

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<b>Virtual Buttons</b>	(5) Virtual buttons in collapsible universal tool bar, per-button show/hide, preconfigured with icons for Power, Home, Lights, Up, and Down
<b>Reset</b>	(1) Pin hole on rear panel for hardware reset

#### Graphics Engine

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Native Sonos® app<sup>1</sup>, Native Crestron Home™ OS app, touch screen setup and diagnostics via web browser or onscreen UI, Crestron Home setup and diagnostics via Crestron Home Setup app

#### Languages

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<b>Onscreen Keyboard</b>	Arabic, Chinese (Simplified), Croatian, Czech, Danish, Dutch, English (UK), English (US), Finnish, French (Canada), French (Switzerland), German, Hebrew, Hungarian, Italian, Japanese, Norwegian Bokmal, Polish, Portuguese, Russian, Serbian, Spanish, Swedish, Turkish
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#### Memory

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<b>RAM</b>	2 GB LPDDR3
<b>Storage</b>	Firmware/Application: 16 GB eMMC pSLC

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### Wired Communications

<b>Ethernet</b>	100 Mbps, auto switching, auto negotiating, auto discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, IEEE 802.3at compliant
<b>USB</b>	USB 2.0 host

### Streaming Decoder

<b>Video Formats</b>	H.265, H.264 (MPEG-4 part 10 AVC, MJPEG)
<b>Audio Formats</b>	AAC Stereo
<b>Bitrates</b>	Up to 25 Mbps (20 Mbps maximum recommended)
<b>Input Resolutions</b>	Up to 1920x1080@30fps
<b>Protocol</b>	RTSP

### Connectors

<b>LAN PoE</b>	(1) 8-pin RJ45 connector, female, with 2 LED indicators; 100BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
<b>USB</b>	(2) USB Type A connectors, female; USB 2.0 host ports

### Power

<b>PoE (Power over Ethernet)</b>	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 15 W from an 802.3at Type 2 PSE with LLDP advanced power management; Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1) PSE
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### Environmental

<b>Temperature</b>	32 to 104 °F (0 to 40 °C)
<b>Humidity</b>	10% to 95% RH (noncondensing)
<b>Heat Dissipation</b>	44 BTU/hr

### Construction

<b>Housing</b>	Plastic, smooth black or white finish, edge-to-edge glass with black or white surround
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<b>Mounting</b>	Surface mount over a 3-3/4 in. H x 2 in. W (96 mm H x 51 mm W) cutout; 2-13/16 in. (72 mm) minimum mounting depth; 1-1/4 in. (32 mm) maximum mounting surface thickness; Pre/postconstruction mounting bracket assembly included; Back box option sold separately
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### Dimensions

<b>Height</b>	5.02 in. (128 mm)
<b>Width</b>	2.84 in. (72 mm)
<b>Depth</b>	1.97 in. (50 mm)

### Weight

8.82 oz (250 g)

### Compliance

**Regulatory Model: M201923001**  
IC, CE, FCC Part 15 Class B digital device

### Models

**TSW-570PR-B-S**  
5 in. Wall Mount Touch Screen, Portrait, Crestron Home™ OS Version, Black Smooth

**TSW-570PR-W-S**  
5 in. Wall Mount Touch Screen, Portrait, Crestron Home™ OS Version, White Smooth

### Included Accessories

**TSW-UMB-70**  
Universal Mounting Bracket for TSW-70 Series

**TSW-UMB-570P-PMK**  
Preconstruction Mounting Kit for TSW-UMB-70, Portrait

### Available Accessories

**TSW-UMB-70-BBI**  
Wall Mount Back Box for TSW-70 Series

**CEN-SW-POE-5**  
5-Port PoE Switch

**CEN-SWPOE-16**  
16-Port Managed PoE Switch

**PWE-4803RU**  
PoE Injector

**CEN-NVS200-PWE**  
Network Video Streamer with PoE Injector

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### DM-RMC-100-STR

HD Streaming Receiver and Room Controller 100

### DM-TXRX-100-STR

HD Streaming Transmitter/Receiver

#### Notes:

1. Item(s) sold separately. Refer to each product's spec sheet for complete information.
2. The TSW-UMB-70 is also compatible with older TSW-UMB-PMK series preconstruction mounting kits and TSW-BBI series back boxes, allowing the TSW-570PR to be installed in place of a previous generation touch screen.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](http://www.crestron.com/How-To-Buy/Find-a-Representative) or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to [www.crestron.com/warranty](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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